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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/663,416	09/16/2003	Bruce B. Randolph	CP34019	2714
23490	7590	06/23/2009		
HONEYWELL/UOP PATENT SERVICES 101 COLUMBIA DRIVE P O BOX 2245 MAIL STOP AB/2B MORRISTOWN, NJ 07962			EXAMINER MCDONOUGH, JAMES E	
			ART UNIT 1793	PAPER NUMBER
			NOTIFICATION DATE 06/23/2009	DELIVERY MODE ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

IP.Docketclerk@uop.com
PatentServices-US@Honeywell.com
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Office Action Summary	Application No. 10/663,416	Applicant(s) RANDOLPH ET AL.	
	Examiner JAMES E. MCDONOUGH	Art Unit 1793	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 04 May 2009.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-6, 8-35, 37 and 38 is/are pending in the application.
- 4a) Of the above claim(s) 10-29 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-6, 8, 9, 30-35, 37 and 38 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

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DETAILED ACTION

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 5/4/09 has been entered.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-6, 8, 9, 30-35, 37 and 38 are rejected under 35 U.S.C. 102(b) as being anticipated by Bahar et al. (US 2001/0024755).

Regarding claims 1, 4, 8, 9, 30, 33 and 37-38

Bahar teaches polymer compositions that can consist of polymer and a compound that is a perhaloalkylsulfonic acid (ion exchange resin) (paragraphs 0015-0025 and 0067-0071), and since the reference teaches that the polymer contains the ion exchange resin it would be expected to be able to hold it in place.

With regards to the claim limitation of “wherein said composition is in a reactor”, it is noted that even the title of the reference “Solid Electrolyte Composite for

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Electrochemical REACTION APPARATUS”, here given its broadest reasonable interpretation a “REACTION APPARATUS” would be a reactor, as it is a container holding agents that are reacting. Further it is noted that this limitation is not seen to limit the composition itself.

With regards to the limitation of the composition being pourable it is noted that 1.) This is not seen to limit the composition in any way as anything is pourable at some scale 2.) The reference teaches that the pores of the membrane are filled with a polymer electrolyte/ion exchange resin (paragraph 0018-00025), and the reference defines the ion exchange resin (paragraphs 00567-0071), and one skilled in the art would expect that these composition would be pourable since they must be deposited within the pores of a membrane, absent any evidence to the contrary.

Bahar teaches that the polymer porosity should be between 40 and 95 %, preferably 70 % (paragraph 042), and since the pores are filled with the acid component, this would read on the claims amount of acid component, absent any evidence to the contrary, as the skilled artisan would expect that a composition filling 40-95 %, preferably 70 % of a volume would read on at least 5 wt %, as the densities would not be expected to differ so greatly as to read on less than 5 wt %.

Regarding claims 2, 3, 31, and 32

Bahar teaches that the polymer can be polyacrylic acid (paragraph 0059).

Regarding claims 5, 6, 34, and 35

These claims only limit the composition when the acid component is selected from groups 4 or 5 from claims 1 or 30.

Response to Arguments

Applicants argue against the 102 rejection over Bahar et al.

Applicants argue that it does not necessarily follow that a polymer film/sheet, having a porosity of 40 and 95 %, preferably 70 %, which is volume based, would equate to the same weight percentage range for the metal salt contained within a solid polymer electrolyte within the pores of this polymer film/sheet, relative to the polymer film/sheet and/or the solid polymer electrolyte. This is not persuasive because the rejection has been modified to show the use of the perfluoroalkyl sulfonic acid as the component filling the pores, and applicants have not persuasively argued as to why this could not read on the claimed weight %, based on the arguments presented in the rejection.

Applicants argue that Bahar does not disclose sufficient information, such as mass or density, therefore one of ordinary skill in the art can not calculate the weight percentage of the acid component. This is not persuasive because applicants have not presented any evidence or sound scientific reasoning that would have led one of ordinary skill in the art to believe that the composition could not contain at least 5 wt % of the acid component.

Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to JAMES E. MCDONOUGH whose telephone number is (571)272-6398. The examiner can normally be reached on 8:30am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jerry Lorengo can be reached on (571)272-1233. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JEM 6/18/2009

/Michael A Marcheschi/
Primary Examiner, Art Unit 1793